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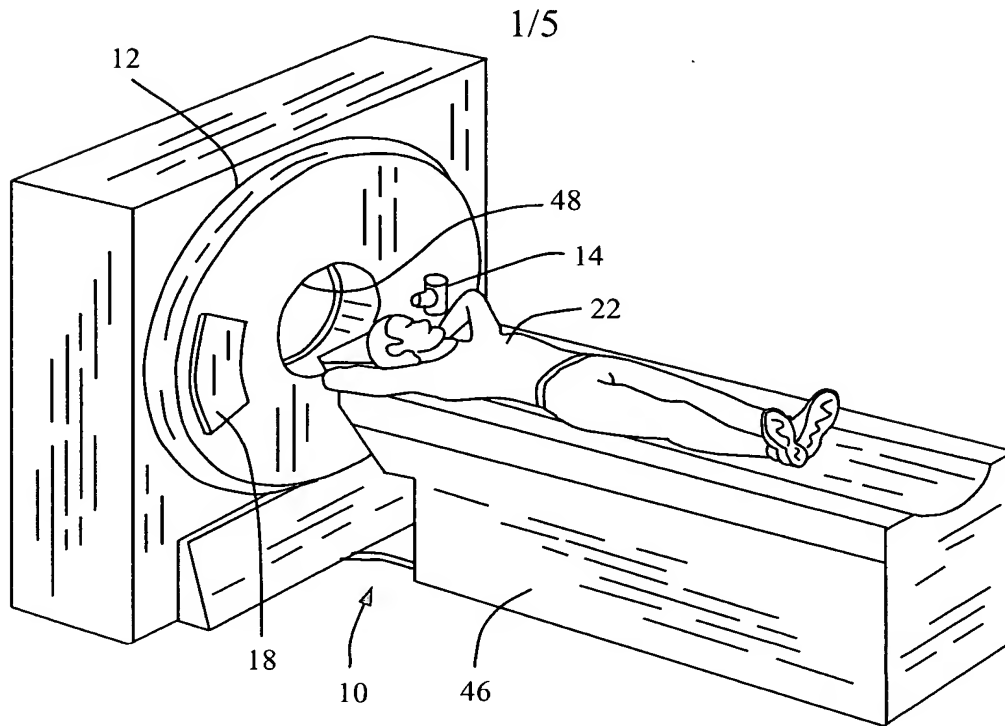


FIG. 1

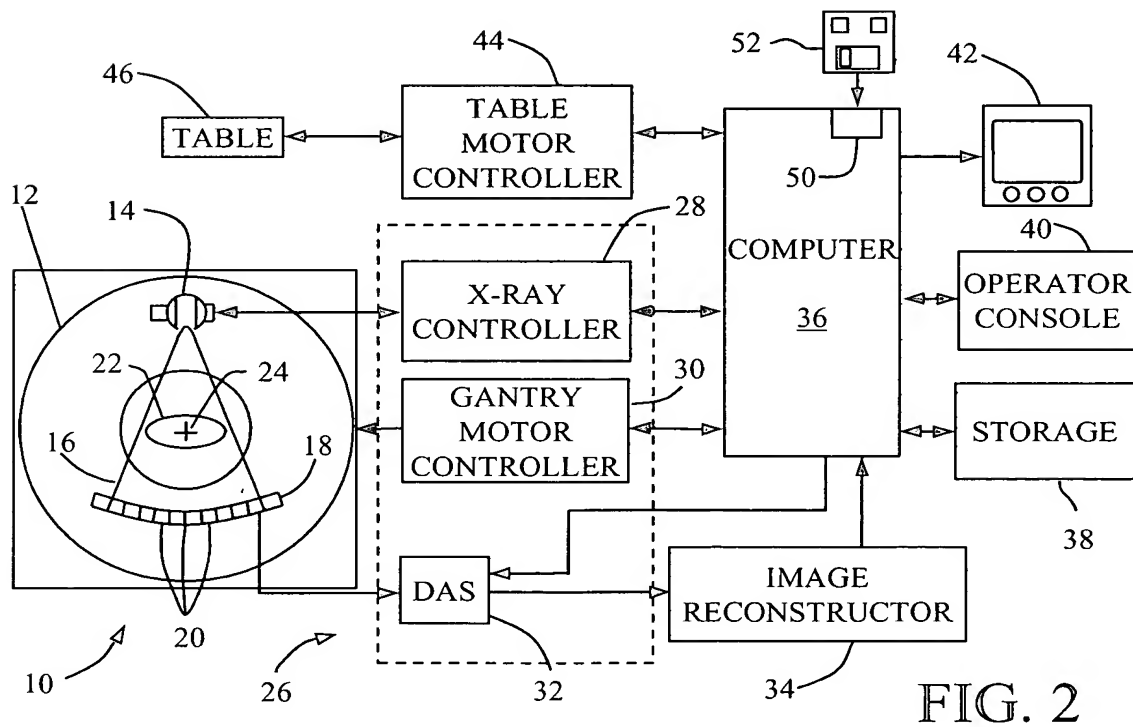


FIG. 2

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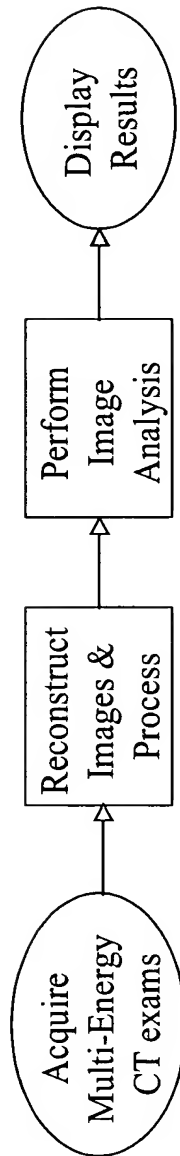


FIG. 3

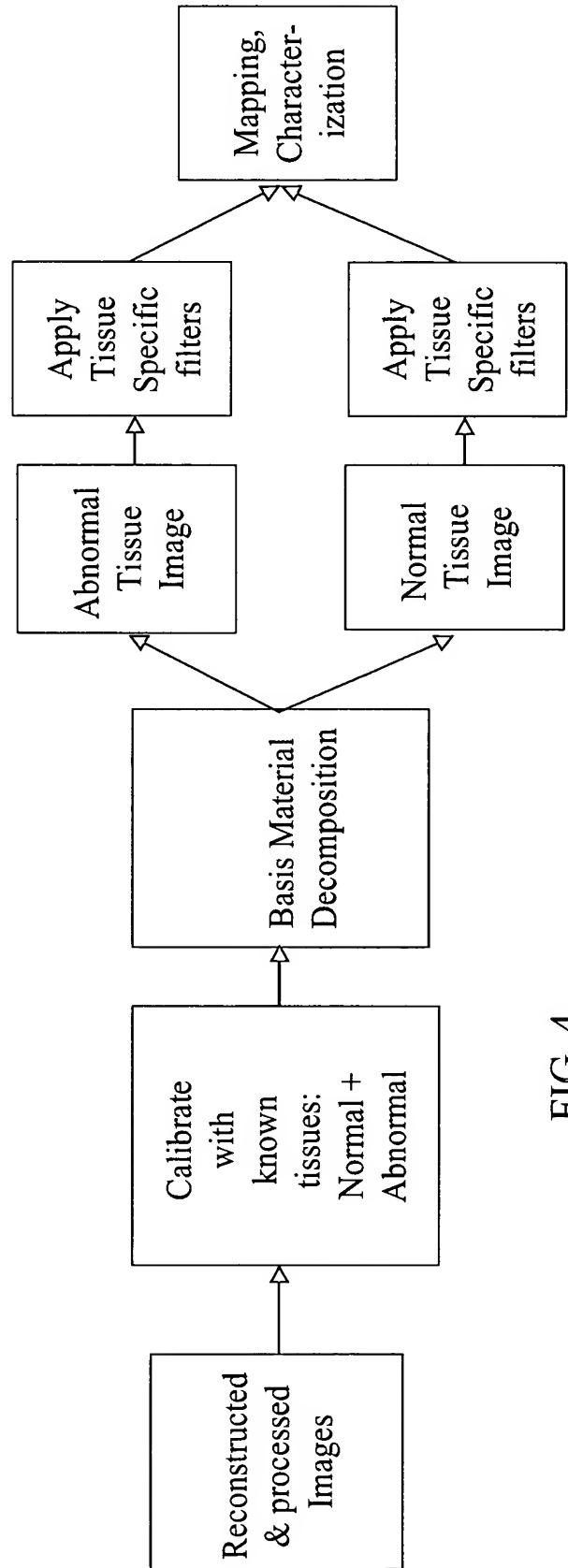


FIG. 4

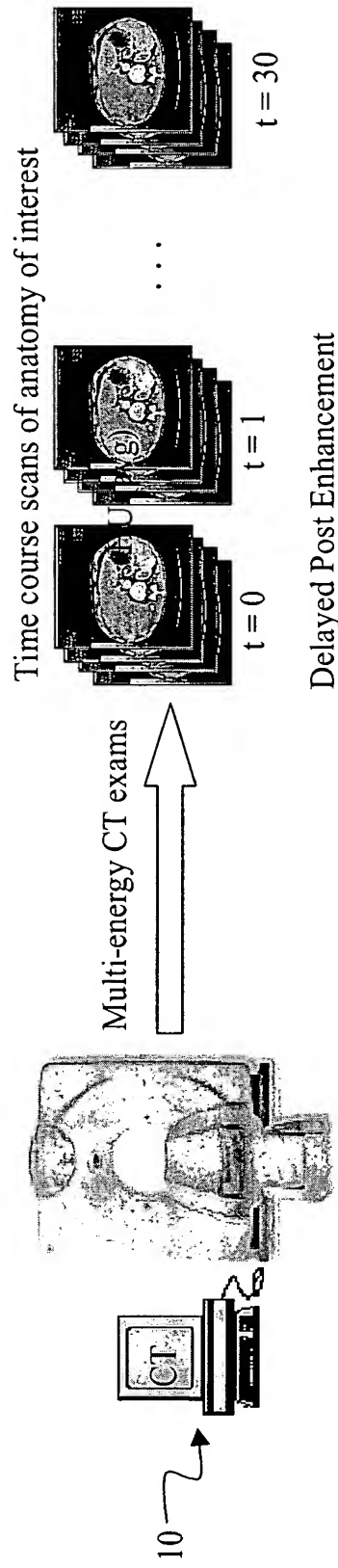


FIG. 5

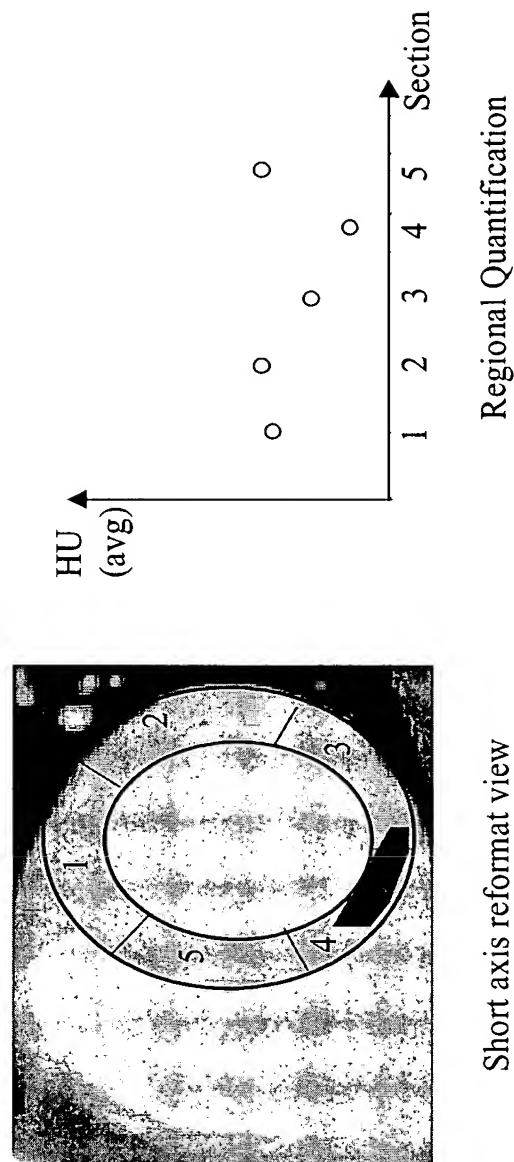


FIG. 6 Result of energy discrimination analysis on multi-energy CT images to identify perfusion defects in myocardial tissue

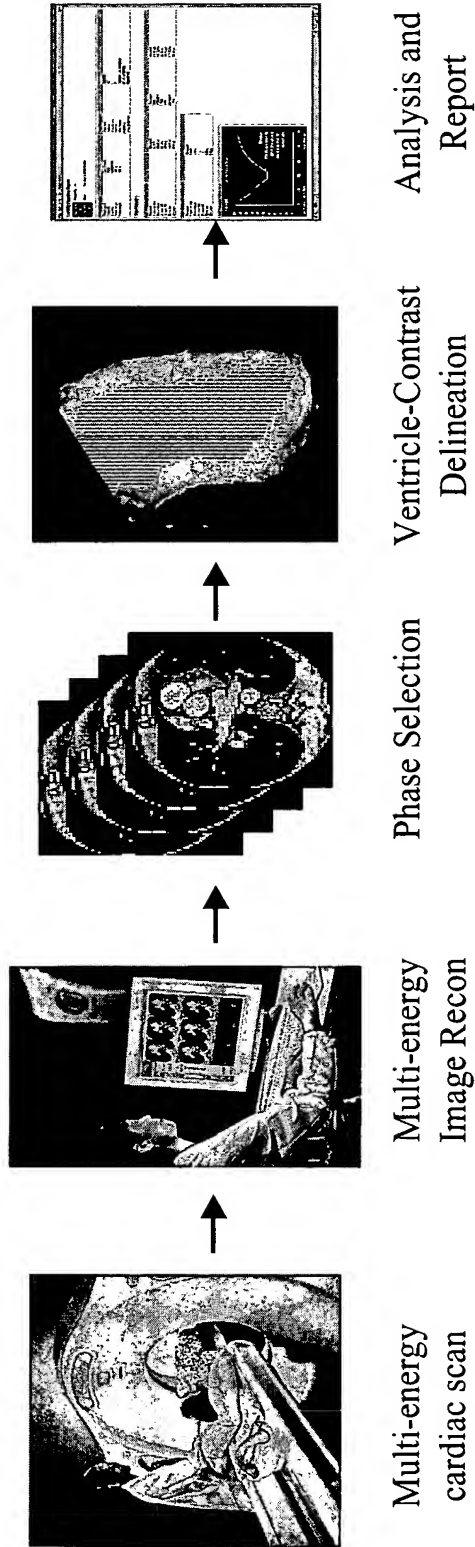


FIG. 7 System for acquisition and analysis of multi-energy CT exams for cardiac function analysis.

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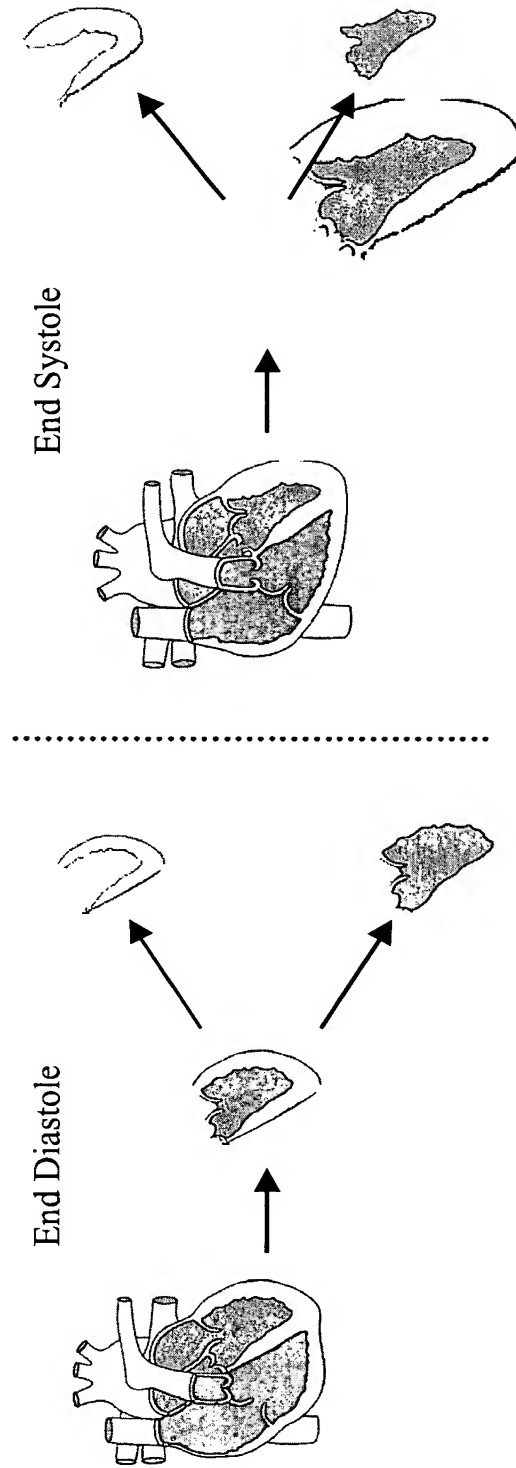


FIG. 8 Results of delineation of the ventricular myocardium from the contrast-filled blood using multi-energy CT scans. First, each of the ventricles is separated from the surrounding anatomy (example shows left ventricle separation), followed by separation of contrast-filled blood from the ventricular tissue. This is done at both end diastole and end systole.

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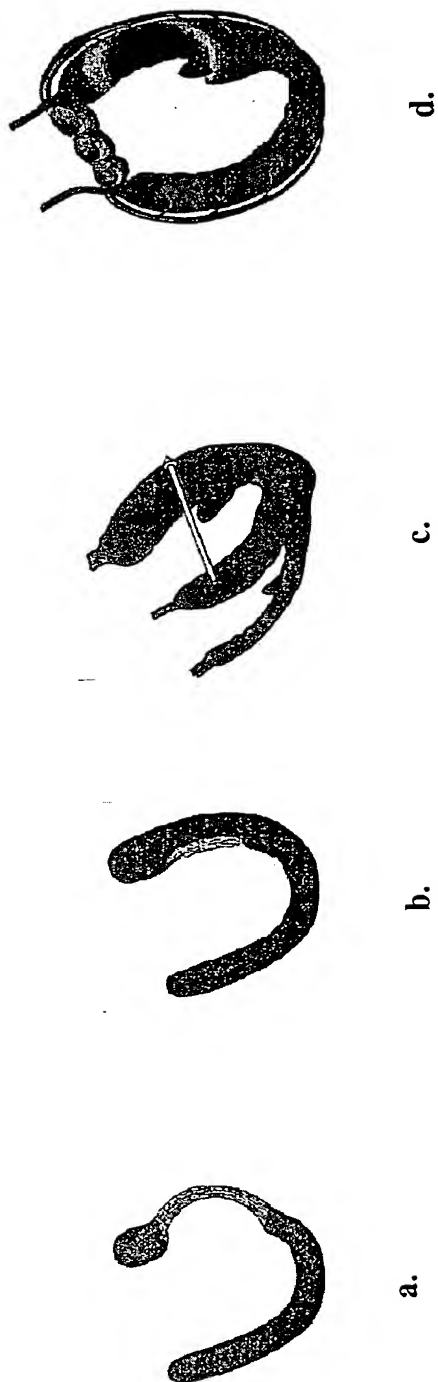


FIG. 9 Examples of accurate diagnoses by energy discrimination analysis on multi-energy CT exams.
a. Transmural infarction; b. Sub-endocardial infarction; c. Hypertrophic cardiomyopathy;
d. Myocardial ischemia and injury.